

DNM 400a

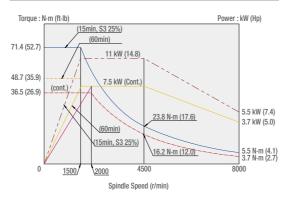






Main Spindle

Spindle power-torque diagram



Spindle motor power (cont/15min)

7.5 / 11 kW (10.1 / 14.8 Hp)

Max. Spindle speed 8000 r/min

Auto Tool Changer

Fast tool change time on a cam-type tool changer helps improve productivity.



Tool change time (T-T-T)

DNM series 1.3 s



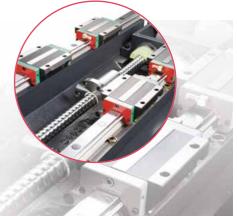


Tool storage capacity 20 tools

Rapid Traverse



The linear motion guide ways and the high-speed servo motors enable fast axis movements, which reduce machining time and non-cutting time, resulting in enhanced productivity.

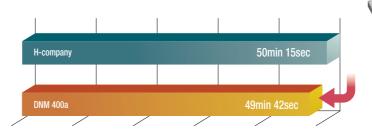


		DNM 400a
X-axis	m/min (ipm)	30 (1181.1)
Y-axis	m/min (ipm)	30 (1181.1)
Z-axis	m/min (ipm)	30 (1181.1)

Machining Productivity

The basic concept of the machine design enables fast machining performance, which ensures an improvement in productivity.

Comparsion of Cutting Time

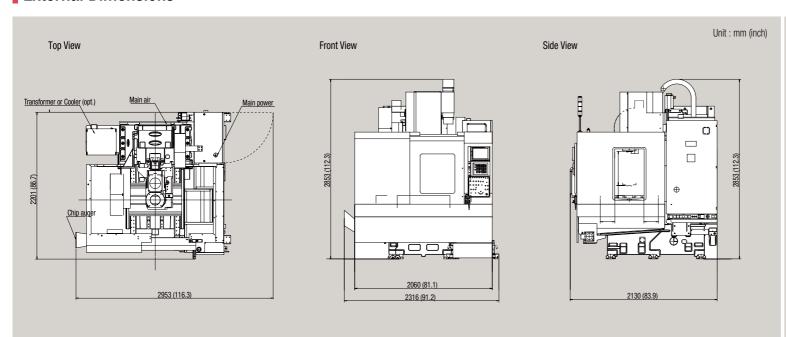


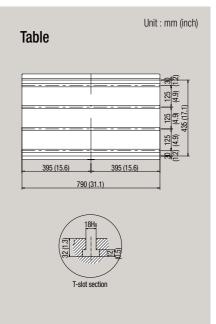
Material : Aluminum (Al606-T6)

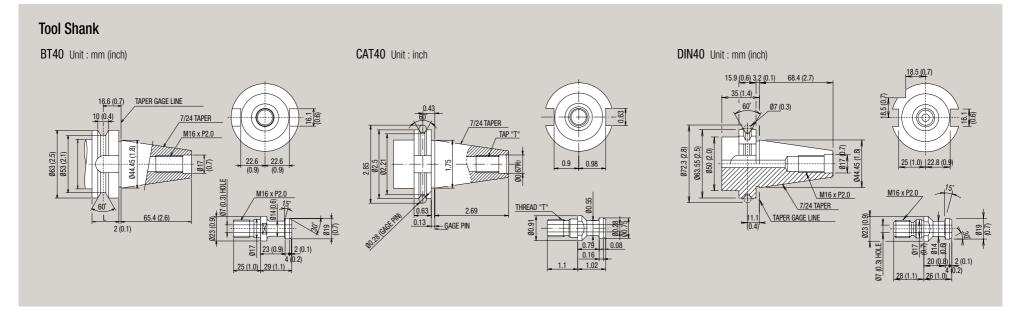
Size: 561 x 210 x 40 mm (22.1 x 8.3 x 1.6 inch)

No. of tools used : 18 tools

External Dimensions







Machine Specifications

	Features		DNM 400a
Travel	X-axis	mm (inch)	635 (25.0)
	Y-axis	mm (inch)	435 (17.1)
	Z-axis	mm (inch)	510 (20.1)
	Distance from spdl nose to table top	mm (inch)	150-660 (5.9-26.0)
	Distance from spdl center to column	mm (inch)	512 (20.2)
Table	Table size	mm (inch)	790 x 435 (31.1 x 17.1)
	Table loading capacity	kg (lb)	400 (881.8)
	Table surface		4-125 x 18H ₈
Spindle	Max. spindle speed	r/min	8000
	Spindle Taper		ISO #40 7/24 Taper
	Max. Torque	N·m (ft·lb)	71 (695.8)
Feedrate	Rapid traverse rate (X / Y / Z)	m/min (ipm)	30 (1181.1)
	Cutting feedrate	mm/min (ipm)	15000 (590.6)
Automatic tool changer	Type of tool shank		BT / CAT / DIN 40
	Tool storage capacity	ea	20
	Max. tool diameter	mm (inch)	Ø80 (3.2)
	Max. tool diameter without adjacent tools	mm (inch)	Ø125 (4.9)
	Max. tool length	mm (inch)	300 (11.8)
	Max. tool weight	kg (lb)	8 (17.6)
	Method of tool selection		memory random
	Tool change time (tool-to-tool)	\$	1.3
	Tool change time (chip-to-chip)	\$	3.7
Motor	Spindle motor (15 min)	kW (Hp)	11 (14.8)
	Feed motor (X / Y / Z)	kW (Hp)	1.2 / 1.2 / 1.8 (1.6 / 1.6 / 2.4)
Power source	Electric power supply (Rated capacity)	kVA	27.4
	Compressed air supply	MPa (psi)	0.54 (78.3)
Tank capacity	Coolant tank capacity	L (gal)	300 (79.3)
	Lubrication tank capacity	L (gal)	1.4 (0.37)
Machine size	Machine height	mm (inch)	2853 (112.3)
	Machine dimension (L x W)	mm (inch)	2130 x 2060 (83.9 x 81.1)
	Machine weight	kg (lb)	4000 (8818.5)
NC system			DOOSAN Fanuc i series

- The specifications and information above-mentioned may be changed without prior notice.
- For more details, please contact Doosan

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Machine Tools

Standard Feature

- Assembly & operation tools
- Auger chip conveyor
- Coolant tank & chip pan
- Door interlock for safety
- Enclosure splash guard (Top cover ont)
- Flood coolant system
- Installation parts
- · Operator call lamp (red, yellow, green)
- Portable MPG
- Work light

Optional Feature

- 4th axis preparation
- Automatic power off
- · Automatic tool length measurement
- · Hydraulic line for fixture
- Pneumatic line for fixture
- Rotary table
- Shower coolant
- Spindle head cooling system
- Test bar
- Through spindle coolant
- (Top cover std.)
- Top cover

NC Unit Specifications

DOOSAN Fanuc i series



- Number of tool offsets: 400 ea
- Tool life management: 128 sets
- Tool offset memory C : Geometry / Wear and Length / Radius offset memory
- No. of Registered programs: 400 ea
- Part program storage: 1280 m
- Additional work coordinate system : G54.1 P1 - 48 (48 pairs)
- Al APC(Advanced Preview Control) : 20 block preview
- MDI / DISPLAY unit: 8.4" Color TFT LCD, keyboard for data input (small), soft-keys
- Embedded ethernet

http://www.doosanmachinetools.com

Head Office: Doosan Tower 20th FL., 275, Jangchungdan-Ro(St), Jung-Gu, Seoul Tel: +82-2-3398-8693 / 8671 / 8680 Fax: +82-2-3398-8699 Doosan Infracore America Corp.: 19A Chapin Rd., Pine Brook, NJ 07058, U.S.A. Tel: +1-973-618-2500 Fax: +1-973-618-2501

Doosan Infracore Germany GmbH : Emdener Strasse 24, D-41540 Dormagen, Germany Tel : +49-2133-5067-100 Fax : +49-2133-5067-001

Doosan Infracore Yantai Co., LTD: 13 Building, 140 Tianlin Road, Xuhui District, Shanghai, China (200233)

Tel: +86-21-6440-3384 (808, 805)

Fax: +86-21-6440-3389 Doosan Infracore Construction Equipment India Pvt. Ltd. (Machine Tool Div.): 106 / 10-11-12, Amruthahalli, Byatarayanapura, Bellary road, Bangalore-560 092, India Tel: +91-80-4266-0122 / 121 / 100

Doosan International South East Asia Pte Ltd.: 42 Benoi Road, Jurong 629903, Singapore Tel: +65-6499-0200 Fax: +65-6861-3459

